

In the Claims

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3 1. **(Currently Amended)** A computer-executable method, comprising:
4 providing a pane element comprising an element behavior that defines the
5 pane element, wherein the pane element is readable from a document by a
6 browser;

7 based at least in part on execution of the pane element, invoking logic
8 associated with the pane element behavior, wherein the logic specifies at least
9 some attributes of a pane and generates an associated hypertext markup language
10 (HTML) element to generate the pane; and
11 generating the pane having the specified attributes.

12
13 2. **(Currently Amended)** The computer-executable method as recited in
14 claim 1, wherein the pane element directs a reference to and execution of the
15 associated logic.

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17 3. **(Currently Amended)** The computer-executable method as recited in
18 claim 1, wherein the pane element comprises a tag.

19
20 4. **(Currently Amended)** The computer-executable method as recited in
21 claim 1, wherein the pane element comprises an HTML tag.

22
23 5. **(Currently Amended)** The computer-executable method as recited in
24 claim 3, wherein executing the tag causes the invoking of the logic.
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2 6. **(Currently Amended)** The computer-executable method as recited in
3 claim 1, wherein the providing provides a document that includes a pane element
4 comprising an element behavior.

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6 7. **(Currently Amended)** The computer-executable method as recited in
7 claim 1, wherein the providing provides a document that includes markup
8 language.

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10 8. **(Currently Amended)** The computer-executable method as recited in
11 claim 1, wherein the logic includes pane-generating instructions.

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13 9. **(Currently Amended)** The computer-executable method as recited in
14 claim 1, wherein the generating generates a viewable pane as an area of a web
15 page.

16
17 10. **(Currently Amended)** A computer-executable method, comprising:
18 providing a pane element comprising an element behavior in a web page
19 document for producing a web page; and
20 executing the pane element wherein the executing invokes logic associated
21 with the pane element, wherein the logic specifies at least some attributes of a
22 pane, and
23 wherein the executing generates a pane having the specified attributes.
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1 11. **(Currently Amended)** The computer-executable method as recited in
2 claim 10, wherein the web page document comprises HTML.

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4 12. **(Canceled)**

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6 13. **(Currently Amended)** The computer-executable method as recited in
7 claim 10, wherein the pane element includes pane attributes to determine one of a
8 size, a dimension, a shape, a color, a format, a priority, and a style of the pane.

9
10 14. **(Currently Amended)** The computer-executable method as recited in
11 claim 10, wherein the pane element includes associated content capable of being
12 displayed in the pane.

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14 15. **(Currently Amended)** The computer-executable method as recited in
15 claim 14, wherein the display content is one of a text, an image, a link, and a user
16 interface.

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18 16. **(Currently Amended)** The computer-executable method as recited in
19 claim 15, wherein the user interface has interactive controls, wherein a user can
20 provides input in response to the content.

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22 17. **(Currently Amended)** The computer-executable method as recited in
23 claim 14, wherein the pane element includes content attributes to determine one of
24
25

1 a size, a dimension, a shape, a color, a format, a priority, a style, and a font of the
2 content to be displayed in the pane.

3
4 18. **(Currently Amended)** The computer-executable method as recited in
5 claim 17, wherein the pane-generating instructions determine the pane attributes
6 based on the amount of content.

7
8 19. **(Currently Amended)** The computer-executable method as recited in
9 claim 17, wherein the associated logic determines the pane attributes based on the
10 content attributes.

11
12 20. **(Currently Amended)** The computer-executable method as recited in
13 claim 10, further comprising multiple pane elements in the web page document to
14 generate multiple panes in the web page.

15
16 21. **(Currently Amended)** The computer-executable method as recited in
17 claim 20, wherein the associated logic adjusts a first pane depending on a
18 characteristic of a second pane.

19
20 22. **(Currently Amended)** The computer-executable method as recited in
21 claim 21, wherein a pane adjusts itself depending on a characteristic or behavior of
22 one or more other panes.

1 23. **(Currently Amended)** The computer-executable method as recited in
2 claim 21, wherein a first pane adjusts a second pane depending on a characteristic
3 or behavior of the first pane.
4

5 24. **(Currently Amended)** The computer-executable method as recited in
6 claim 21, wherein an attribute of the first pane is adjusted based on changing
7 content in the second pane.
8

9 25. **(Currently Amended)** The computer-executable method as recited in
10 claim 21, wherein an attribute of content in the first pane is changed based on a
11 change in an attribute of content in the second pane.
12

13 26. **(Currently Amended)** The computer-executable method as recited in
14 claim 25, wherein content in the second pane is changed as the content is edited in
15 the first pane.
16

17 27. **(Currently Amended)** The computer-executable method as recited in
18 claim 20, wherein the associated logic assigns a placement to each pane in the web
19 page.
20

21 28. **(Currently Amended)** The computer-executable method as recited in
22 claim 27, wherein the placement includes a pane size and a position in the web
23 page.
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1 29. **(Currently Amended)** The computer-executable method as recited in
2 claim 27, wherein the placement of one pane depends at least in part on the
3 placement of remaining panes of the multiple panes.
4

5 30. **(Currently Amended)** The computer-executable method as recited in
6 claim 27, wherein the placement includes a z-order of display priority in response
7 to an overlapping of two or more of the multiple panes, wherein a pane having the
8 highest z-order of display priority is focused by having the remaining panes
9 subordinated to the focused pane by appearing to be displayed behind the focused
10 pane.
11

12 31. **(Currently Amended)** The computer-executable method as recited in
13 claim 30, wherein if one or more of the multiple panes include an interactive user
14 interface, then changing the z-order of display priority to give a highest priority to
15 a pane with an interactive user interface in current use.
16

17 32. **(Currently Amended)** ~~A web page document, comprising:~~
18 A computer-readable medium containing computer executable
19 instructions, including instructions to create:

20 content to be displayed in a web page resulting from rendering ~~the~~ a web
21 page document;

22 markup tags to indicate instructions for displaying the content in the web
23 page; and
24
25

1 a pane element to provide instructions for using a division of a computer
2 display screen, wherein execution of the pane tag causes pane-generating
3 instructions to be substituted for the pane tag; and
4 pane-generating instructions containing at least one element behavior
5 bound to the pane element.
6

7 33. **(Currently Amended)** The ~~web page document~~ computer-readable
8 medium as recited in claim 32, wherein the web page document is an HTML
9 document.
10

11 34. **(Canceled)**
12

13 35. **(Currently Amended)** The ~~web page document~~ computer-readable
14 medium as recited in claim 32, wherein the pane element includes pane attributes
15 to determine one of a size, a dimension, a shape, a color, a format, a priority, and a
16 style of the pane.
17

18 36. **(Currently Amended)** The ~~web page document~~ computer-readable
19 medium as recited in claim 32, wherein the content is one of a text, an image, a
20 link, and a user interface.
21

22 37. **(Currently Amended)** The ~~web page document~~ computer-readable
23 medium as recited in claim 36, wherein the pane-generating instructions determine
24 the pane attributes based on attributes of the content.
25

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2 38. **(Currently Amended)** The ~~web page document~~ computer-readable
3 medium as recited in claim 32, further comprising multiple pane elements in the
4 web page document to generate multiple panes in the web page.

5
6 39. **(Currently Amended)** The ~~web page document~~ computer-readable
7 medium as recited in claim 38, wherein a pane-generating instruction adjusts a
8 first pane depending on a characteristic of a second pane.

9
10 40. **(Currently Amended)** The ~~web page document~~ computer-readable
11 medium as recited in claim 39, wherein an attribute of the first pane is adjusted
12 based on changing content in the second pane.

13
14 41. **(Currently Amended)** The ~~web page document~~ computer-readable
15 medium as recited in claim 39, wherein an attribute of content in the first pane is
16 changed based on a change in an attribute of content in the second pane.

17
18 42. **(Currently Amended)** The ~~web page document~~ computer-readable
19 medium as recited in claim 39, wherein content in the second pane is changed as
20 the content is edited in the first pane.

21
22 43. **(Currently Amended)** The ~~web page document~~ computer-readable
23 medium as recited in claim 32, wherein the pane-generating instructions assign a
24 placement on a display screen to each pane in the web page.
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2 44. (Currently Amended) The ~~web page document~~ computer-readable
3 medium as recited in claim 43, wherein the placement includes a pane size and a
4 position in the web page.

5
6 45. (Currently Amended) The ~~web page document~~ computer-readable
7 medium as recited in claim 44, wherein the placement of one pane depends at least
8 in part on the placement of remaining panes of the multiple panes.

9
10 46. (Currently Amended) The ~~web page document~~ computer-readable
11 medium as recited in claim 45, wherein the placement includes a z-order of
12 display priority in response to an overlapping of two or more of the multiple
13 panes, wherein a pane having the highest z-order of display priority is focused by
14 having the remaining panes subordinated to the focused pane by appearing to be
15 displayed behind the focused pane.

16
17 47. (Currently Amended) A system for creating an element behavior that
18 defines a pane element for a markup language document, comprising:

19 ~~a starting tag including a reference to~~ underlying pane-generating logic
20 bound to the pane element for generating a web page pane, wherein a web browser
21 ~~can find~~ the pane-generating logic using the reference; and

22 a starting tag including a reference for finding the underlying pane-
23 generating logic.
24
25

1 ~~optionally, a list of attribute variables, wherein an attribute value can be~~
2 ~~specified and implemented by the underlying pane-generating logic.~~

3
4 48. **(Currently Amended)** The ~~pane element~~ system as recited in claim
5 47, further comprising an ending tag, wherein content for display in the web page
6 pane is includable between the starting tag and the ending tag.

7
8 49. **(Currently Amended)** A computer-executable pane engine,
9 comprising:

10 a pane attribute assignor;
11 a pane sizer; ~~and~~
12 a pane positioner, and
13 wherein a pane element comprising an element behavior
14 and included in a web page document references the pane engine to
15 generate a web page pane.

16
17 50. **(Original)** The pane engine as recited in claim 49, further
18 comprising default pane attributes for generating the web page pane.

19
20 51. **(Original)** The pane engine as recited in claim 50, further
21 comprising an attribute reader to obtain one of pane attributes and content
22 attributes selected by a user.

1 52. **(Original)** The pane engine as recited in claim 49, further
2 comprising a multipane coordinator to generate the web page pane based at least
3 in part on attributes of one or more other web page panes.
4

5 53. **(Original)** The pane engine as recited in claim 52, wherein the
6 multipane coordinator includes a Z-order prioritizer to determine an order of web
7 page panes in a cascaded stack of web page panes appearing on a display screen.
8

9 54. **(Original)** The pane engine as recited in claim 52, further
10 comprising a focus assignor to determine which pane of multiple panes is active or
11 on top of a cascaded stack of web page panes appearing on a display screen.
12

13 55. **(Original)** The pane engine as recited in claim 52, further
14 comprising an attribute interrelation module including a pane attribute analyzer
15 and a content attribute analyzer, wherein a pane attribute of a first pane is
16 determined based on a pane attribute or a content attribute of a second pane.
17

18 56. **(Original)** The pane engine as recited in claim 52, further
19 comprising a dynamic content linker to enable changes in a content of a first pane
20 to affect display of a content in a second pane.
21

22 57. **(Original)** The pane engine as recited in claim 52, further
23 comprising a common resource linker, wherein changes in content in the common
24 resource are simultaneously displayed in two or more panes.
25

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2 **58. (Currently Amended)** One or more computer readable media
3 containing instructions that are executable by a computer to perform actions,
4 comprising:

5 executing language elements in a markup language document to generate a
6 web page; and

7 executing a pane element comprising an element behavior in the markup
8 language document to generate a web page pane, wherein a web page pane is a
9 division of a computer display screen, and wherein execution of the pane element
10 causes pane-generating instructions written in the markup language to be
11 substituted for the pane element.

12
13 **59. (Original)** The one or more computer readable media as recited in
14 claim 58, wherein the markup language document is an HTML document.

15
16 **60. (Canceled)**

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18 **61. (Currently Amended)** A computer-executable method, comprising:
19 providing a markup language tag comprising an element behavior for
20 creating a pane in a web page;
21 based at least in part on execution of the tag, invoking logic associated with
22 the tag wherein the logic specifies at least some attributes of a pane; and
23 generating the pane having the specified attributes.
24
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1 **62. (Currently Amended)** The computer-executable method as recited in
2 claim 61, wherein the tag comprising an element behavior directs a reference to
3 and execution of the associated logic.

4
5 **63. (Currently Amended)** The computer-executable method as recited in
6 claim 61, wherein the markup language is a hypertext markup language.

7
8 **64. (Currently Amended)** The computer-executable method as recited in
9 claim 61, wherein the providing provides a document that includes the tag.

10
11 **65. (Currently Amended)** The computer-executable method as recited in
12 claim 61, wherein the providing provides a document that includes markup
13 language.

14
15 **66. (Currently Amended)** The computer-executable method as recited in
16 claim 61, wherein the logic includes pane-generating instructions.

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18 **67. (Currently Amended)** The computer-executable method as recited in
19 claim 61, wherein the generating generates a viewable pane as an area of a web
20 page.

21 **68. (New)** The system as recited in claim 47, wherein a list of attribute
22 variables exist where an attribute value can be specified and implemented by the
23 underlying pane-generating logic.